

ABSTRACT OF THE DISCLOSURE

In an auxiliary safety sensor 6 which has a first sensor set composed of a first transmitter 61 and a first receiver 63 located opposite to each other and a second sensor set composed of a second transmitter 62 and a second receiver 64 located opposite to each other, a test operation is performed by emitting a light beam only from the first transmitter 61. The state of misconnection is confirmed when a connection point 73 for the first receiver 61 does not receive predetermined light acceptance data for the amount of received light. To solve the misconnection, the light acceptance data based on the signals from the receivers 63, 64 are exchanged between each other, before they are supplied to the data acquisition means 8.